

1/9

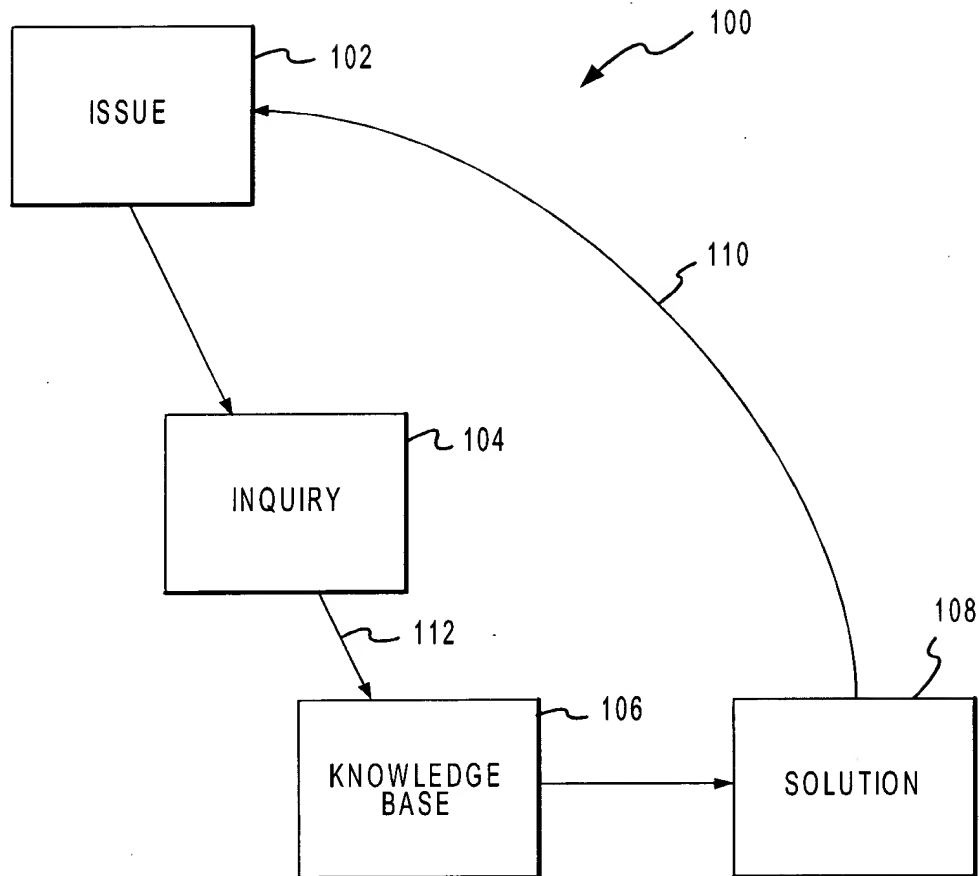
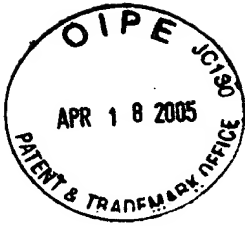


FIG.1



2/9

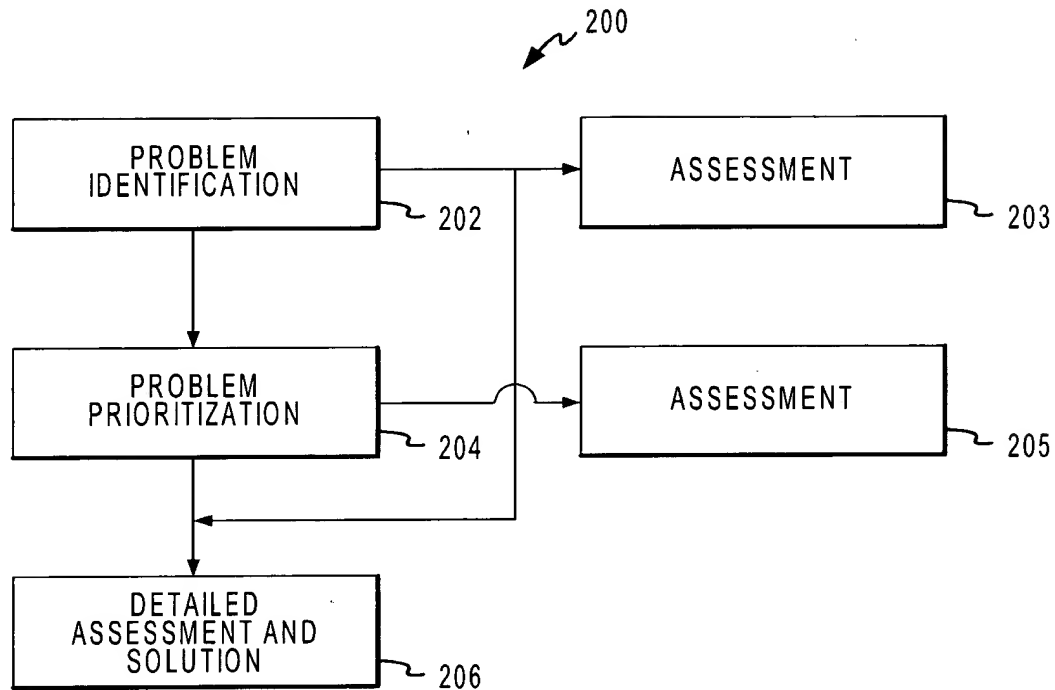


FIG.2

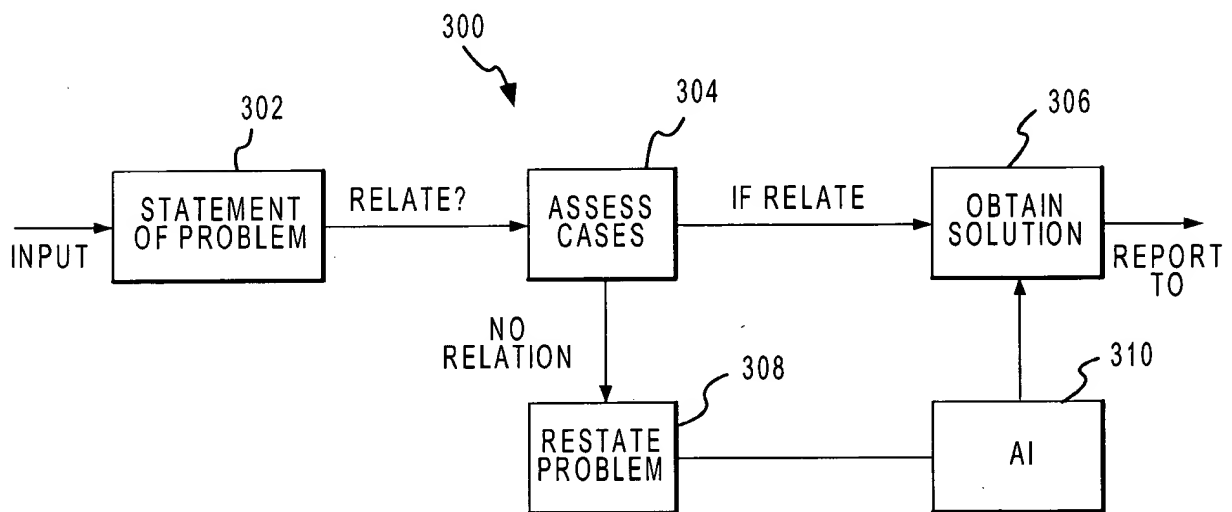


FIG.3



3/9

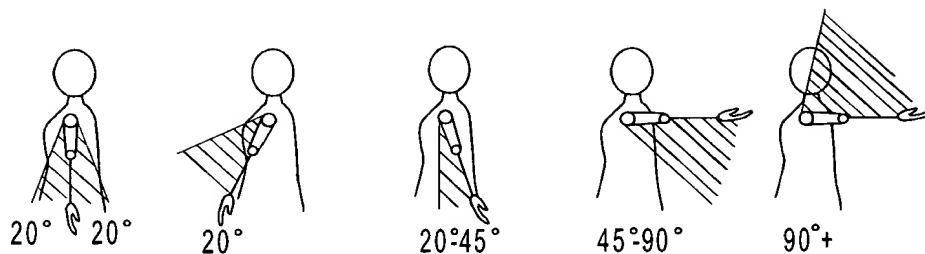
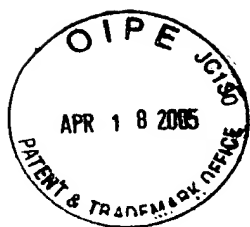


FIG.7

TASK/ACTION	RIGHT	LEFT	REMOVE
R-1 CUTTING OF LARGE SHELLS			
GRASP SHELL		1	
PLACE SHELL ON LATHE		5	
REMOVE WHILE ROTATING SHELL		5	
REPLACE SHELL		1	
LOWER LEVER	5		
RAISE LEVER	5		
R-2 CUTTING OF SMALL SHELLS			
GRASP SHELL		1	
PLACE SHELL ON LATHE		9	
REMOVE WHILE ROTATING SHELL		9	

FIG.4



4/9

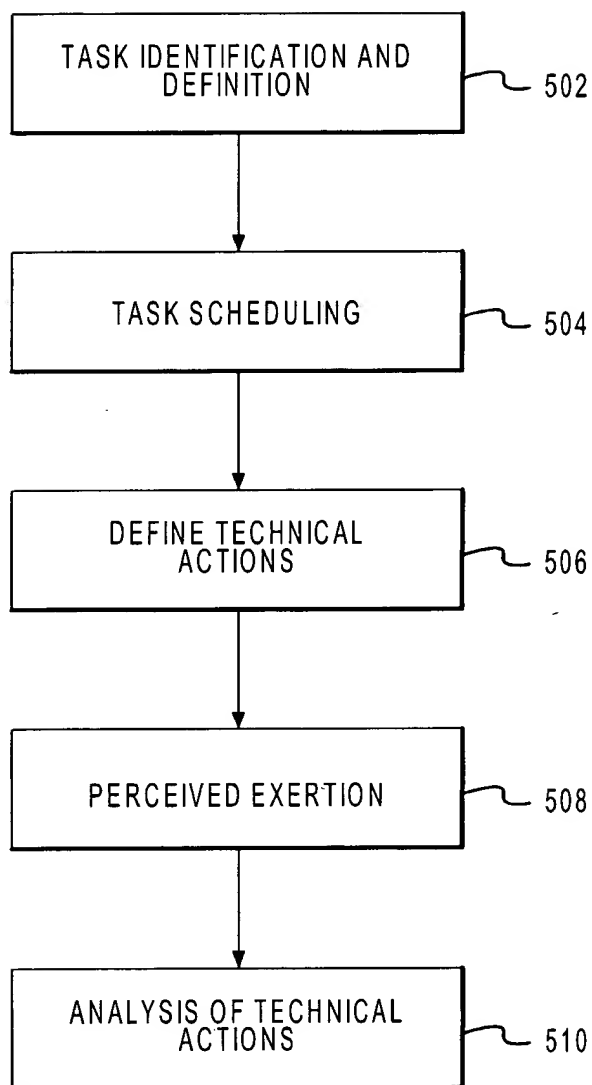


FIG.5

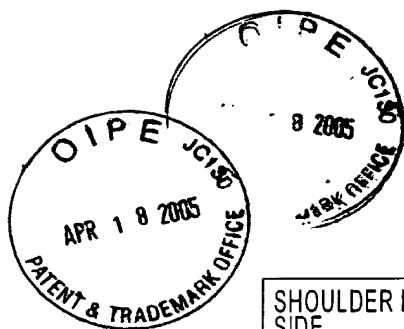
Appl. No.: 09/710,488  
Inventor: WONG, Robert P.  
Docket No.: 36457.0200  
Attorney: R. Lee Fraley  
Phone: 602-382-6250



5/9

0	NOTHING AT ALL
0.5	VERY, VERY WEAK (JUST NOTICEABLE)
1	VERY WEAK
2	WEAK (LIGHT)
3	MODERATE
4	SOMEWHAT STRONG
5	STRONG HEAVY
6	
7	VERY STRONG
8	
9	
10	VERY, VERY STRONG (ALMOST MAXIMUM)

FIG.6



6/9



SHOULDER POSITIONS AND MOVEMENTS-LEFT SIDE					SHOULDER POSITIONS AND MOVEMENTS-RIGHT SIDE				
ABDUCTION	<input checked="" type="radio"/>	N/A	<input type="radio"/>	1/3	<input type="radio"/>	2/3	<input type="radio"/>	3/3	
FLEXION	<input checked="" type="radio"/>	N/A	<input type="radio"/>	1/3	<input type="radio"/>	2/3	<input type="radio"/>	3/3	
EXTENSION	<input checked="" type="radio"/>	N/A	<input type="radio"/>	1/3	<input type="radio"/>	2/3	<input type="radio"/>	3/3	
<input type="checkbox"/> PERFORMS WORK GESTURES OF THE SAME TYPE INVOLVING THE SHOULDER FOR MORE THAN 50% OF THE CYCLE/TASK TIME?					<input type="checkbox"/> PERFORMS WORK GESTURES OF THE SAME TYPE INVOLVING THE SHOULDER FOR MORE THAN 50% OF THE CYCLE/TASK TIME?				
<input type="checkbox"/> KEEPS THE ARM RAISED (UNSUPPORTED) BY AN ANGLE MORE THAN 60 DEGREES OR IN EXTENSION FOR AT LEAST 10 SEC. CONSECUTIVELY ONCE EVERY CYCLE (SHORT CYCLE). FOR LONGER CYCLE TIME INCREASE PROPORTIONATELY THE TIME OF THE STATIC CONTRACTION.					<input type="checkbox"/> KEEPS THE ARM RAISED (UNSUPPORTED) BY AN ANGLE MORE THAN 60 DEGREES OR IN EXTENSION FOR AT LEAST 10 SEC. CONSECUTIVELY ONCE EVERY CYCLE (SHORT CYCLE). FOR LONGER CYCLE TIME INCREASE PROPORTIONATELY THE TIME OF THE STATIC CONTRACTION.				
<input type="checkbox"/> KEEPS THE ARM RAISED (UNSUPPORTED) AT 60 DEGREES FOR >1 MINUTE <input type="checkbox"/>					<input type="checkbox"/> KEEPS THE ARM RAISED (UNSUPPORTED) AT 60 DEGREES FOR >1 MINUTE <input type="checkbox"/>				
ABDUCTION    FLEXION    EXTENSION									
									
ELBOW MOVEMENTS-LEFT SIDE					ELBOW MOVEMENTS-RIGHT SIDE				
SUPINATION	<input checked="" type="radio"/>	N/A	<input type="radio"/>	1/3	<input type="radio"/>	2/3	<input type="radio"/>	3/3	
PRONATION	<input checked="" type="radio"/>	N/A	<input type="radio"/>	1/3	<input type="radio"/>	2/3	<input type="radio"/>	3/3	
FLEXION	<input checked="" type="radio"/>	N/A	<input type="radio"/>	1/3	<input type="radio"/>	2/3	<input type="radio"/>	3/3	
<input type="checkbox"/> PERFORMS WORK GESTURES OF THE SAME TYPE INVOLVING THE ELBOW FOR MORE THAN 50% OF THE CYCLE?					<input type="checkbox"/> PERFORMS WORK GESTURES OF THE SAME TYPE INVOLVING THE ELBOW FOR MORE THAN 50% OF THE CYCLE?				
									

FIG.8A



7/9

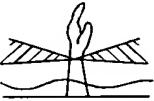

WRIST POSITIONS AND MOVEMENTS-LEFT SIDE					WRIST POSITIONS AND MOVEMENTS-RIGHT SIDE				
EXTENSION	<input type="checkbox"/> N/A	<input type="checkbox"/> 1/3	<input type="checkbox"/> 2/3	<input type="checkbox"/> 3/3	EXTENSION	<input type="checkbox"/> N/A	<input type="checkbox"/> 1/3	<input type="checkbox"/> 2/3	<input type="checkbox"/> 3/3
FLEXION	<input type="checkbox"/> N/A	<input type="checkbox"/> 1/3	<input type="checkbox"/> 2/3	<input type="checkbox"/> 3/3	FLEXION	<input type="checkbox"/> N/A	<input type="checkbox"/> 1/3	<input type="checkbox"/> 2/3	<input type="checkbox"/> 3/3
RADIAL DEVIATION	<input type="checkbox"/> N/A	<input type="checkbox"/> 1/3	<input type="checkbox"/> 2/3	<input type="checkbox"/> 3/3	RADIAL DEVIATION	<input type="checkbox"/> N/A	<input type="checkbox"/> 1/3	<input type="checkbox"/> 2/3	<input type="checkbox"/> 3/3
ULNAR DEVIATION	<input type="checkbox"/> N/A	<input type="checkbox"/> 1/3	<input type="checkbox"/> 2/3	<input type="checkbox"/> 3/3	ULNAR DEVIATION	<input type="checkbox"/> N/A	<input type="checkbox"/> 1/3	<input type="checkbox"/> 2/3	<input type="checkbox"/> 3/3
<input type="checkbox"/> PERFORMS WORK GESTURES OF THE SAME TYPE INVOLVING THE WRIST FOR MORE THAN 50% OF THE CYCLE?					<input type="checkbox"/> PERFORMS WORK GESTURES OF THE SAME TYPE INVOLVING THE WRIST FOR MORE THAN 50% OF THE CYCLE?				
 EXTENSION/FLEXION					 RADIAL/ULNAR				
TYPE OF GRIP AND FINGER MOVEMENTS-LEFT SIDE					TYPE OF GRIP AND FINGER MOVEMENTS-RIGHT SIDE				
TIGHT GRIP (1.5CM)	<input type="checkbox"/> N/A	<input type="checkbox"/> 1/3	<input type="checkbox"/> 2/3	<input type="checkbox"/> 3/3	TIGHT GRIP (1.5CM)	<input type="checkbox"/> N/A	<input type="checkbox"/> 1/3	<input type="checkbox"/> 2/3	<input type="checkbox"/> 3/3
PINCH	<input type="checkbox"/> N/A	<input type="checkbox"/> 1/3	<input type="checkbox"/> 2/3	<input type="checkbox"/> 3/3	PINCH	<input type="checkbox"/> N/A	<input type="checkbox"/> 1/3	<input type="checkbox"/> 2/3	<input type="checkbox"/> 3/3
PALMAR GRIP	<input type="checkbox"/> N/A	<input type="checkbox"/> 1/3	<input type="checkbox"/> 2/3	<input type="checkbox"/> 3/3	PALMAR GRIP	<input type="checkbox"/> N/A	<input type="checkbox"/> 1/3	<input type="checkbox"/> 2/3	<input type="checkbox"/> 3/3
HOOK GRIP	<input type="checkbox"/> N/A	<input type="checkbox"/> 1/3	<input type="checkbox"/> 2/3	<input type="checkbox"/> 3/3	HOOK GRIP	<input type="checkbox"/> N/A	<input type="checkbox"/> 1/3	<input type="checkbox"/> 2/3	<input type="checkbox"/> 3/3
KEYING GRIP	<input type="checkbox"/> N/A	<input type="checkbox"/> 1/3	<input type="checkbox"/> 2/3	<input type="checkbox"/> 3/3	KEYING GRIP	<input type="checkbox"/> N/A	<input type="checkbox"/> 1/3	<input type="checkbox"/> 2/3	<input type="checkbox"/> 3/3
WIDE GRIP (4-5CM)	<input type="checkbox"/> N/A	<input type="checkbox"/> 1/3	<input type="checkbox"/> 2/3	<input type="checkbox"/> 3/3	WIDE GRIP (4-5CM)	<input type="checkbox"/> N/A	<input type="checkbox"/> 1/3	<input type="checkbox"/> 2/3	<input type="checkbox"/> 3/3
<input type="checkbox"/> PERFORMS WORK GESTURES OF THE SAME TYPE INVOLVING THE SAME FINGER(S) FOR AT LEAST 50% OF THE CYCLE?					<input type="checkbox"/> PERFORMS WORK GESTURES OF THE SAME TYPE INVOLVING THE SAME FINGER(S) FOR AT LEAST 50% OF THE CYCLE?				
<input type="checkbox"/> HOLDS AND OBJECT IN A PINCH, PALMAR OR HOOK GRIP FOR AT LEAST 50% OF CYCLE?					<input type="checkbox"/> HOLDS AND OBJECT IN A PINCH, PALMAR OR HOOK GRIP FOR AT LEAST 50% OF CYCLE?				

FIG.8B







9/9

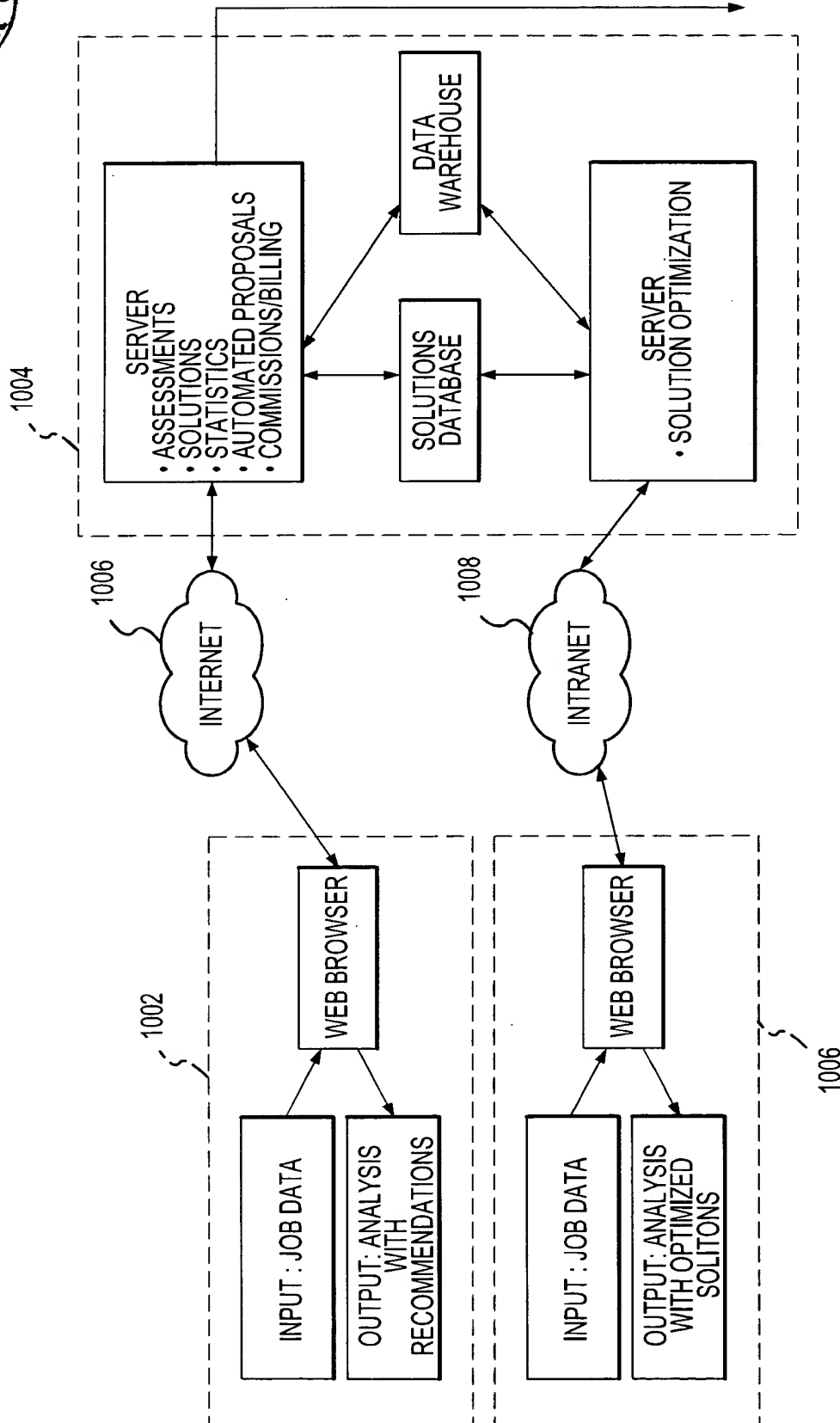


FIG.10